Recombinant Human OGT Protein, His-tagged

Cat. No. OGT-2527H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human OGT Protein (Ala771-Ala1046) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala771-Ala1046
Description	This gene encodes a glycosyltransferase that catalyzes the addition of a single N-acetylglucosamine in O-glycosidic linkage to serine or threonine residues. Since both phosphorylation and glycosylation compete for similar serine or threonine residues, the two processes may compete for sites, or they may alter the substrate specificity of nearby sites by steric or electrostatic effects. The protein contains multiple tetratricopeptide repeats that are required for optimal recognition of substrates. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.6 kDa Accurate Molecular Mass: 35 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	OGT O-linked N-acetylglucosamine (GlcNAc) transferase [Homo sapiens (human)]
Official Symbol	OGT
Synonyms	OGT; HRNT1; O-GLCNAC; O-linked N-acetylglucosamine (GlcNAc) transferase; UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit; O-GlcNAc transferase p110 subunit; O-GlcNAc transferase subunit p110; O-linked N-acetylglucosamine transferase 110 kDa subunit; UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase; uridinediphospho-N-acetylglucosamine:polypeptide beta-N-acetylglucosaminyl transferase; O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-

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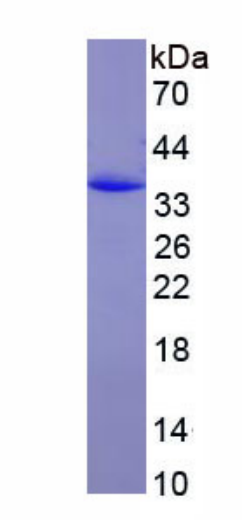
	acetylglucosaminyl transferase); EC 2.4.1.255
Gene ID	8473
mRNA Refseq	NM_181672
Protein Refseq	NP_858058
MIM	300255
UniProt ID	O15294
	

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